Figure 1

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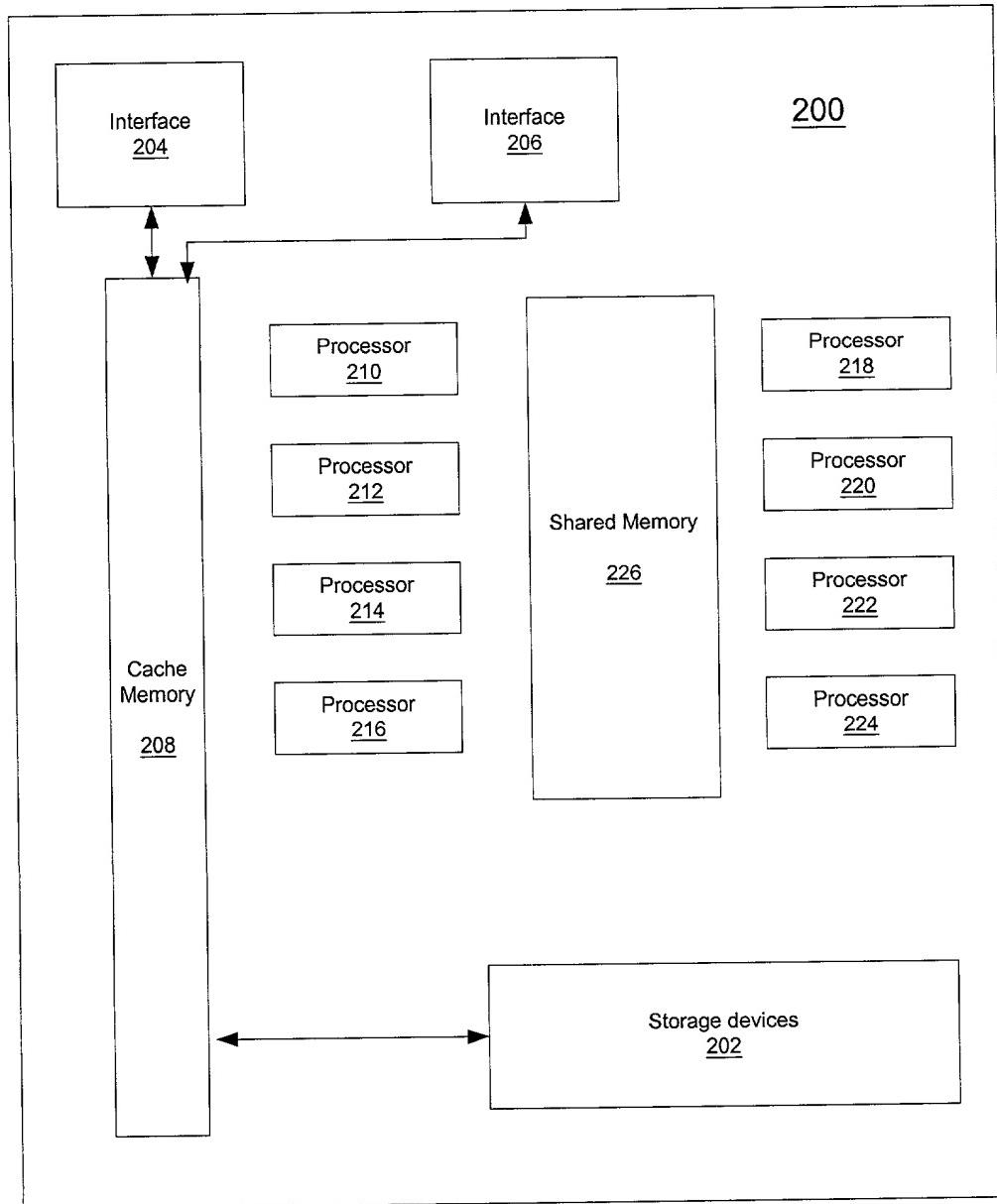
108

Client

110

Client

104

Server

102
Network

100

Client

Storage

106

112
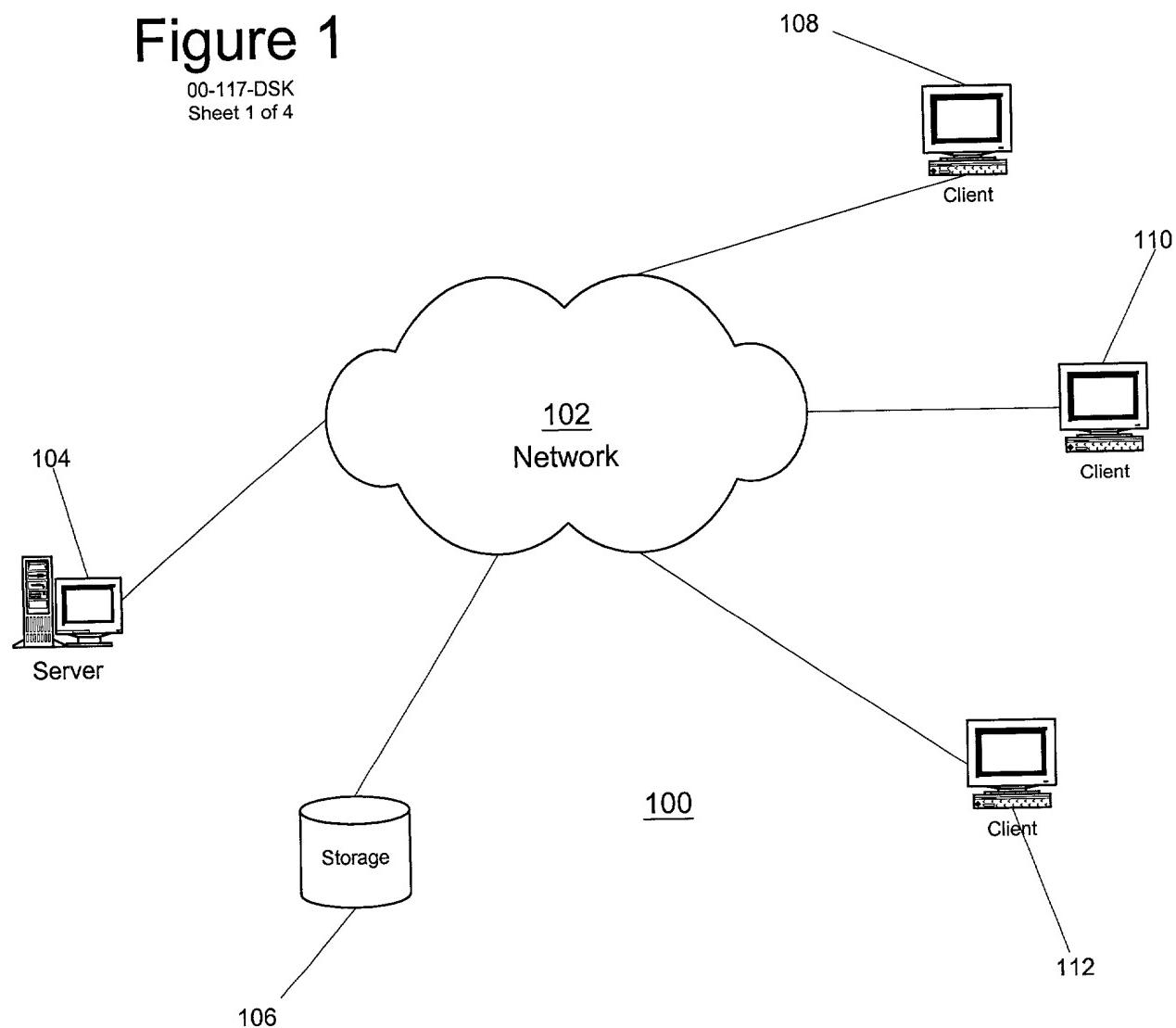
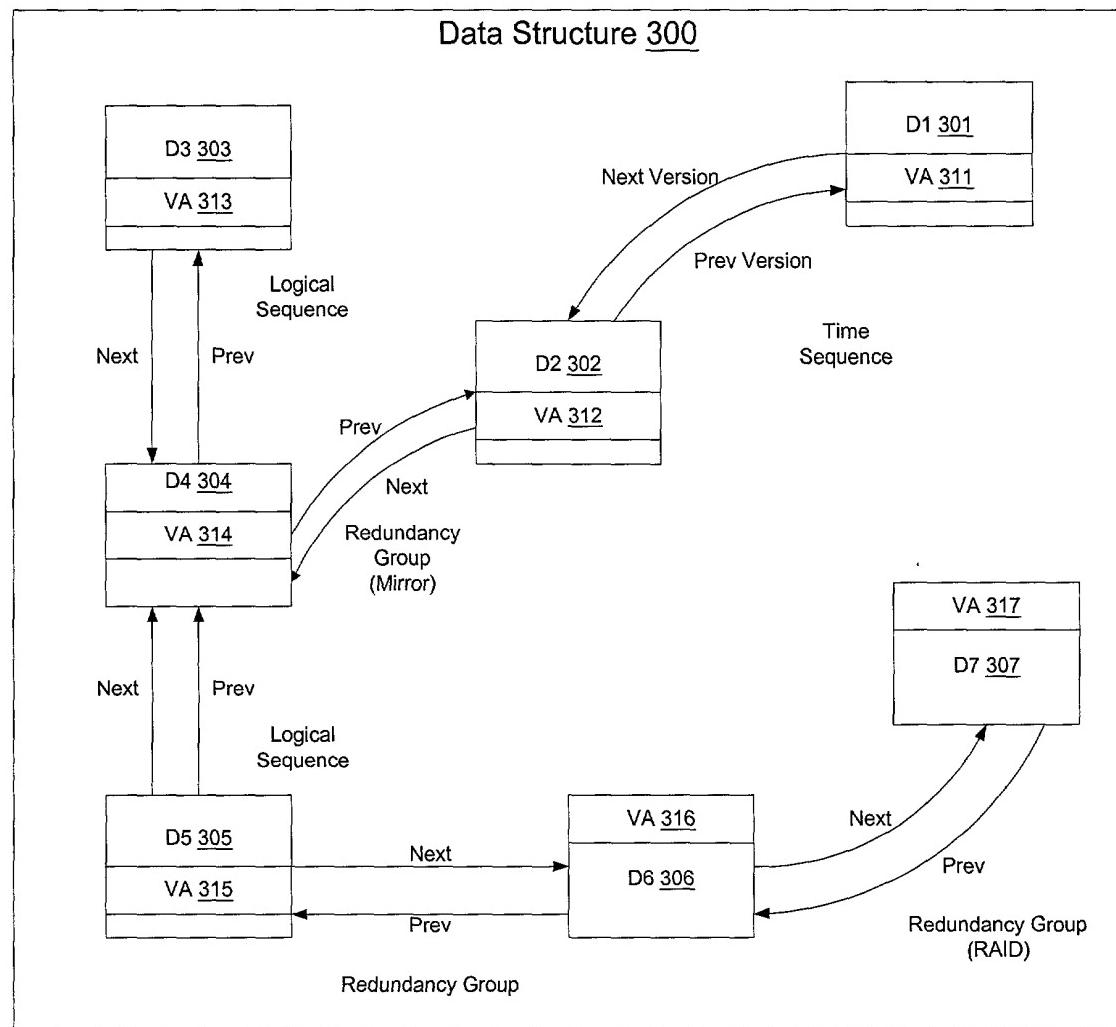## Figure 2

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Figure 3

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Figure 4

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400

• Identity of this data element	405
• Identity of the data unit associated with this data element	410
• Pointer to current physical location	412
• Pointer to history of physical locations	414
• Mapping structure type (e.g. tree, log structured file, etc.)	416
• Pointers to related data element(s)	418
• Pointer to a list of related data elements	420
• Pointer to access a related data unit	422
• Time stamps (of last change, change history)	424
• Rules for processing the metadata	426
• Pointers to rules for processing metadata	428
• Rules for ordering processing of data elements	430
• Data unit attributes	432

- Performance criteria	434
- Reliability criteria	436
- Availability criteria	438
- Capacity criteria	440

• Pointer to executable functions for interpreting and executing management rules	442
• Boundary information for this data element	444
• Boundary information for the data unit(s) associated with this data element	446
• Access History information for this data element	448
• Access History information for related data elements or data units	450